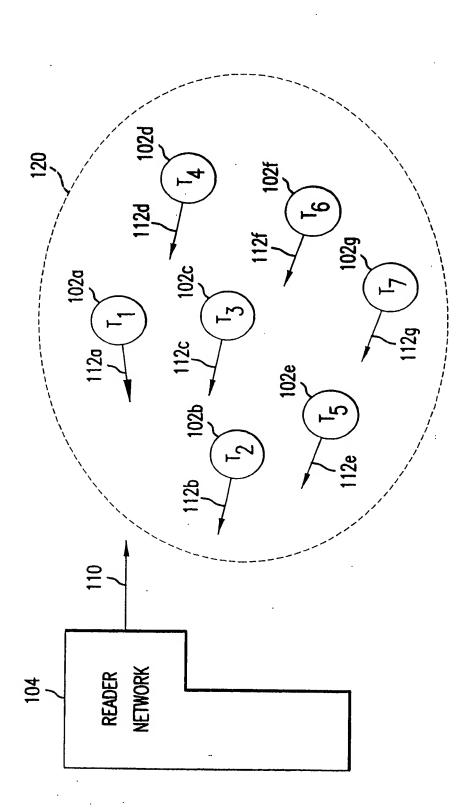
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Dkt No. 1689.0210001; Group Unit: 2636
Inventors: SHANKS et al.
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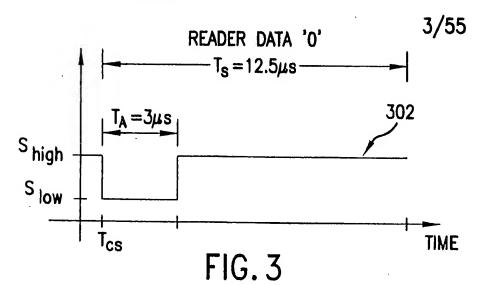


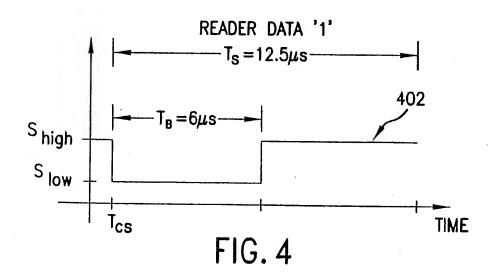
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Dkt No. 1689.0210001; Group Unit: 2636
Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System, and Apparatus for Binary Traversal of a Tag Population 2/55 READER NETWORK/SITE 202a 230 -203a 200 WAN WAN **APPLICATIONS** 202b SITE ETHERNET/TCP/IP LOCAL 240 203b **APPLICATIONS** SENSOR INTERFACE SENSOR INTERFACE 204a 204b MODULE (SIM) A MODULE (SIM) B 242 **POWER** 205a LOCAL NETWORK INSERTER FOR RASMs TWISTED - PAIR 252· 485-BASED **CABLE** 205b OR ETHERNET POWER **──** 246 LOCAL POWER 208 244d MUX **WIRING** RASM 1 RASM 1 210a **BLOCK** 211a ≤antenna i ANTENNA 1 244a 206a 206a 211h ANTENNA 4 >ANTENNA 8 210d **248** LOCAL POWER WIRING RASM 2 244e RASM 2 **BLOCK** RF **PROTOCOL** 244b 214 206b 206b **250** 206n LOCAL POWER 244c-RASM n 244f RASM m -206m 00 TAGS -102 **TAGS** -102 104 FIG. 2

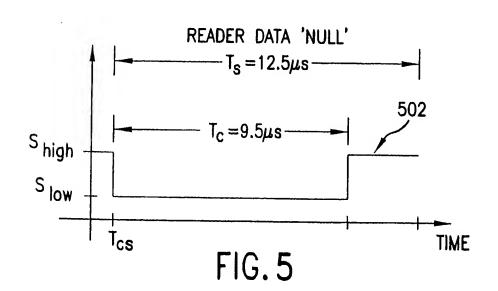
MAR 2 2 1006

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READER BIT 'O' WITH TAG BIT 'O'

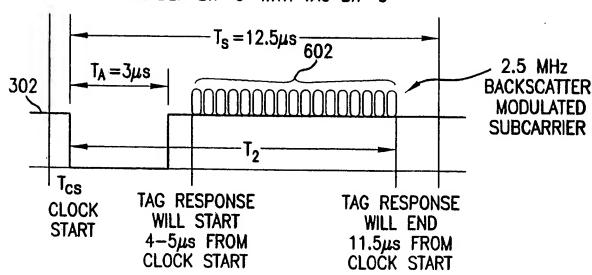


FIG. 6

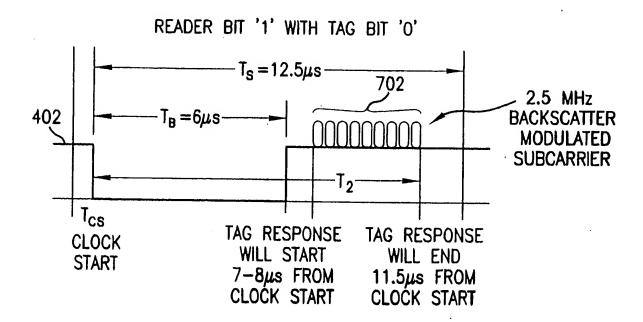


FIG. 7

PE 40,000 BY

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READER BIT 'O' WITH TAG BIT '1'

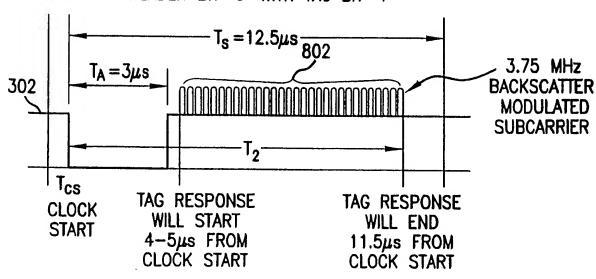


FIG. 8

READER BIT '1' WITH TAG BIT '1'

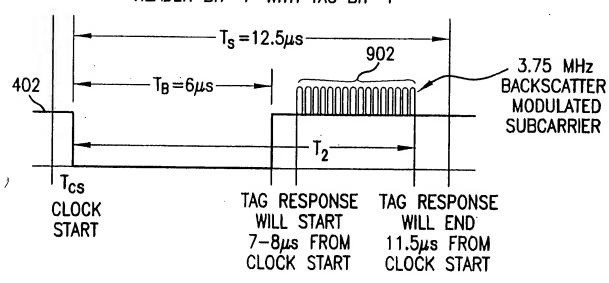


FIG. 9

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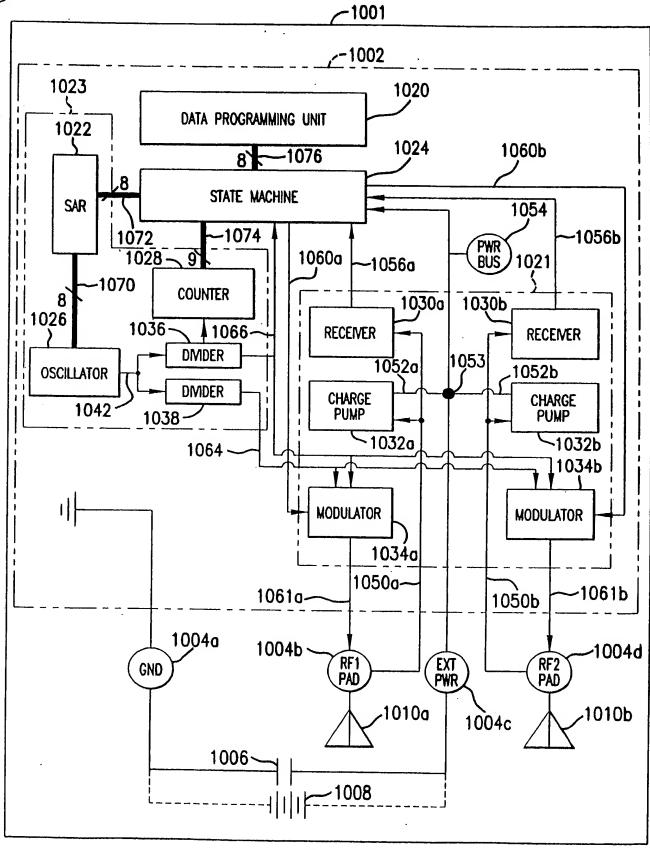


FIG. 10

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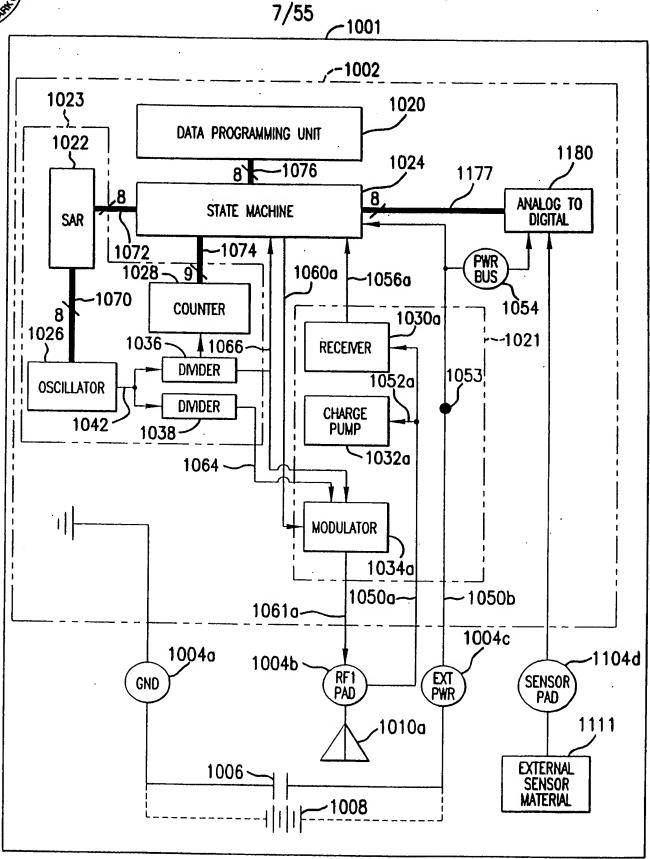


FIG. 11

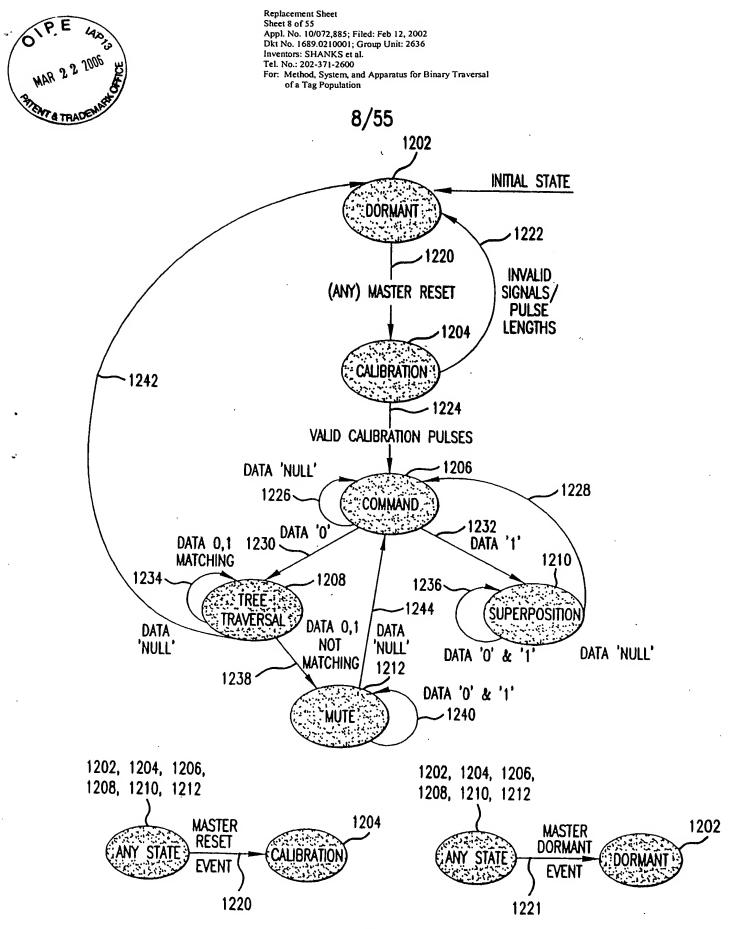
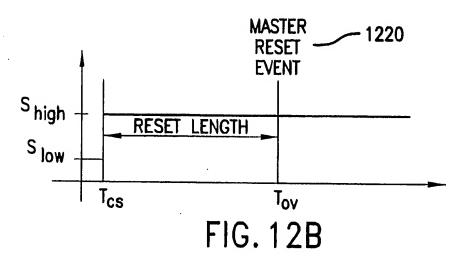


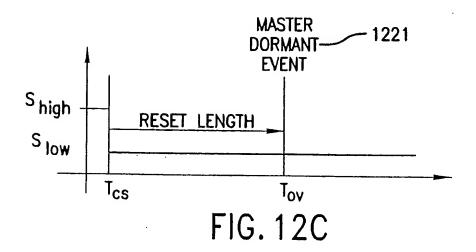
FIG. 12A

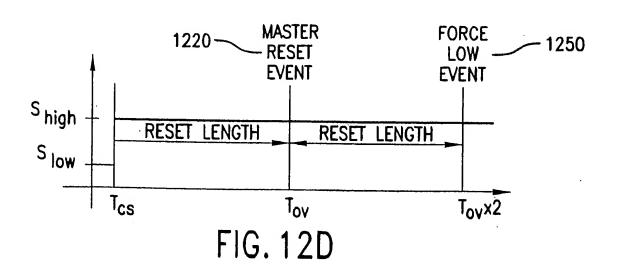


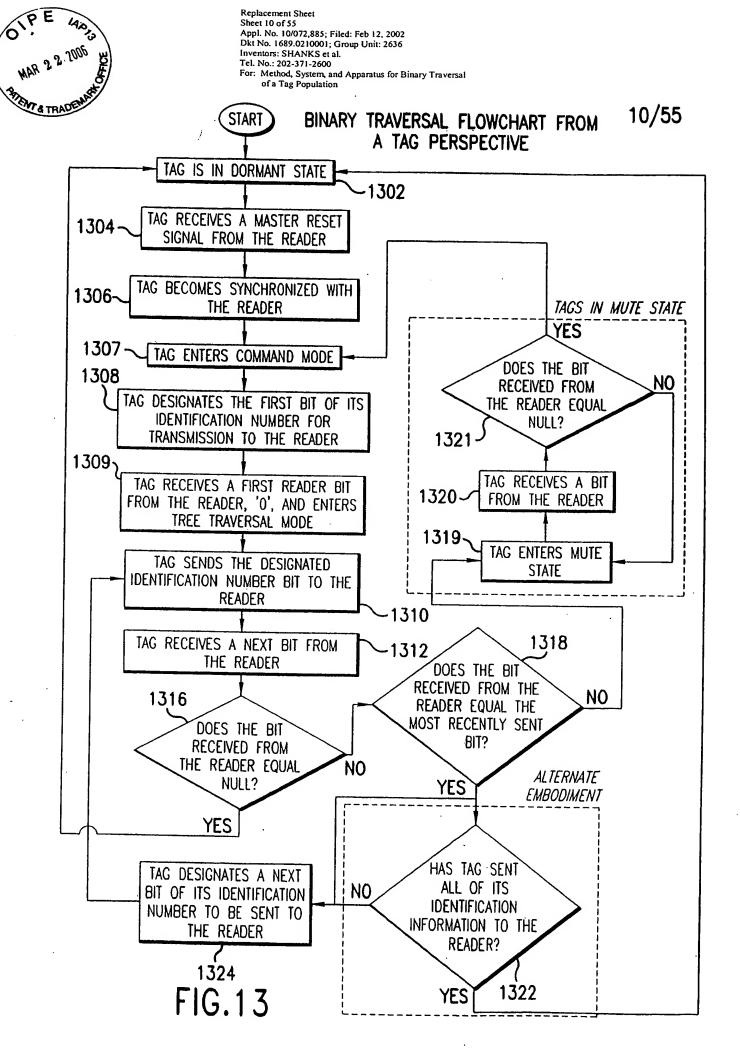
Replacement Sheet Sheet 9 of 55 Appl. No. 10/072,885; Filed: Feb 12, 2002 Dkt No. 1689.0210001; Group Unit: 2636 Inventors: SHANKS et al. Tel. No.: 202-371-2600

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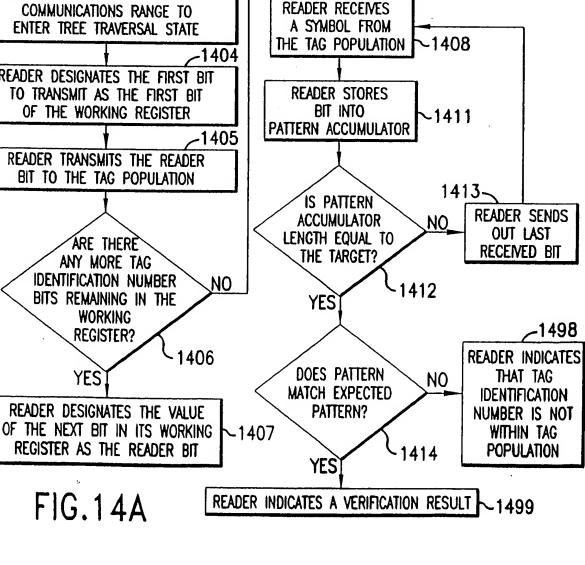








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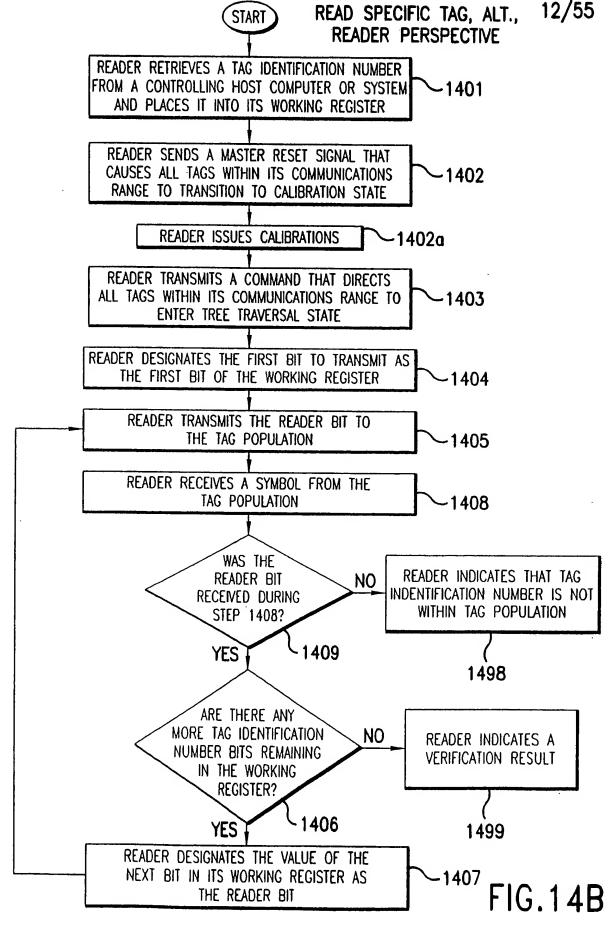


MAR 2 2 7006 W

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READ ALL TAGS, READER PERSPECTIVES

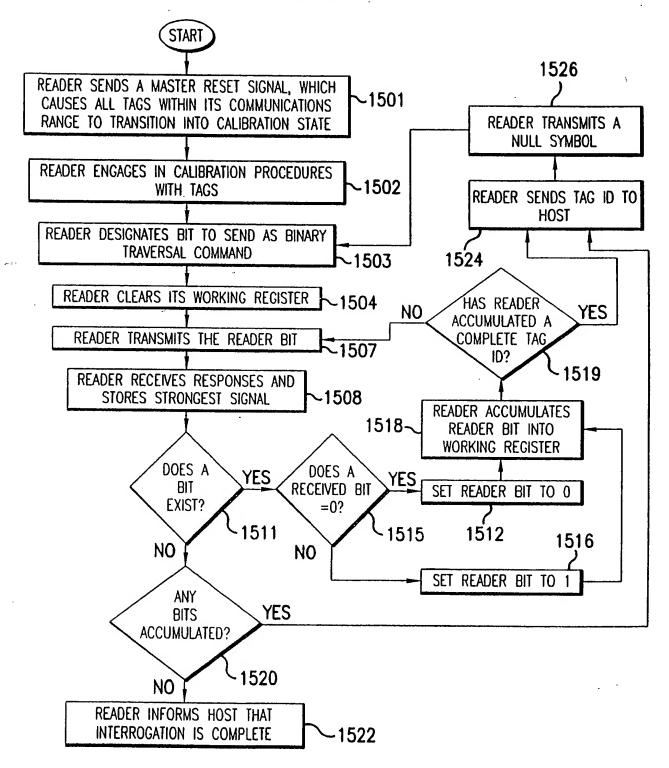
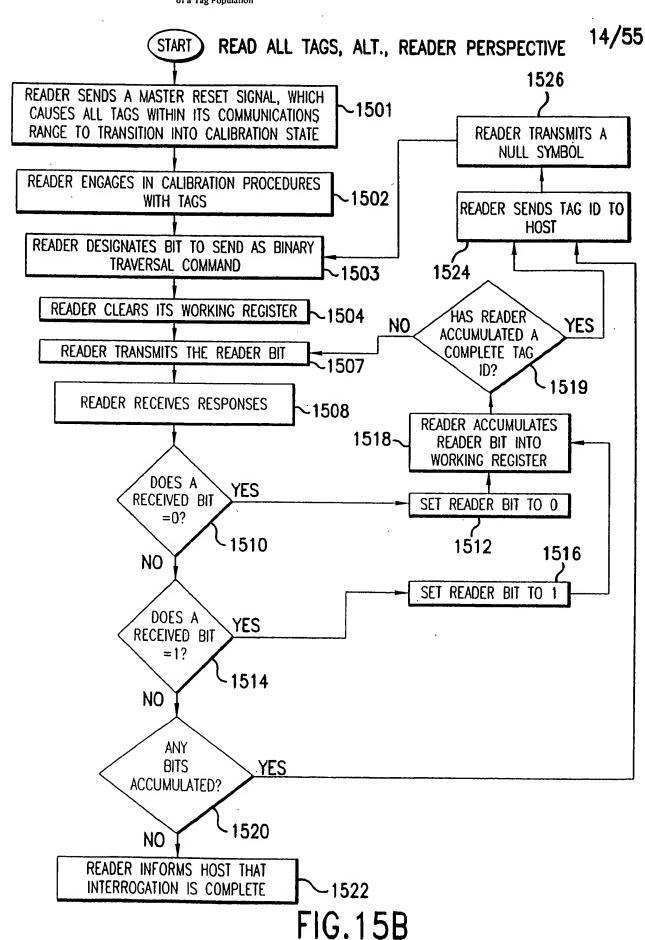


FIG.15A

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BINARY TRAVERAL PATHS AND TREE FOR A 3-BIT TAG POPULATION

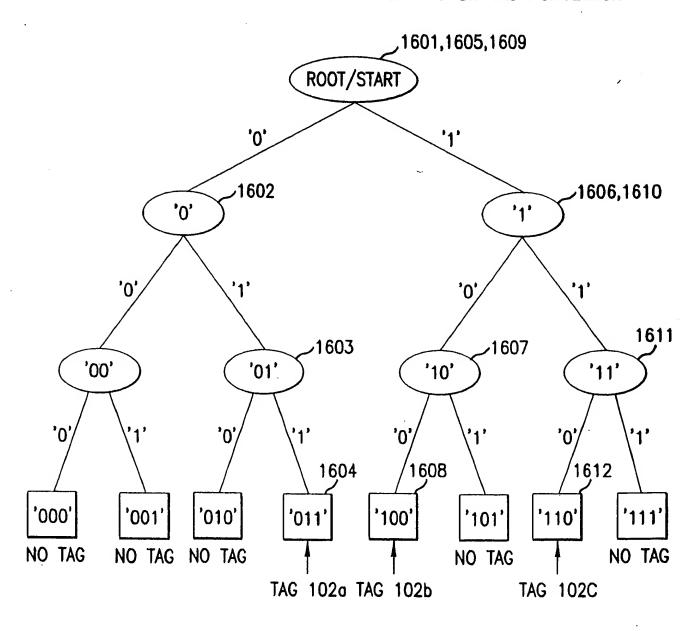
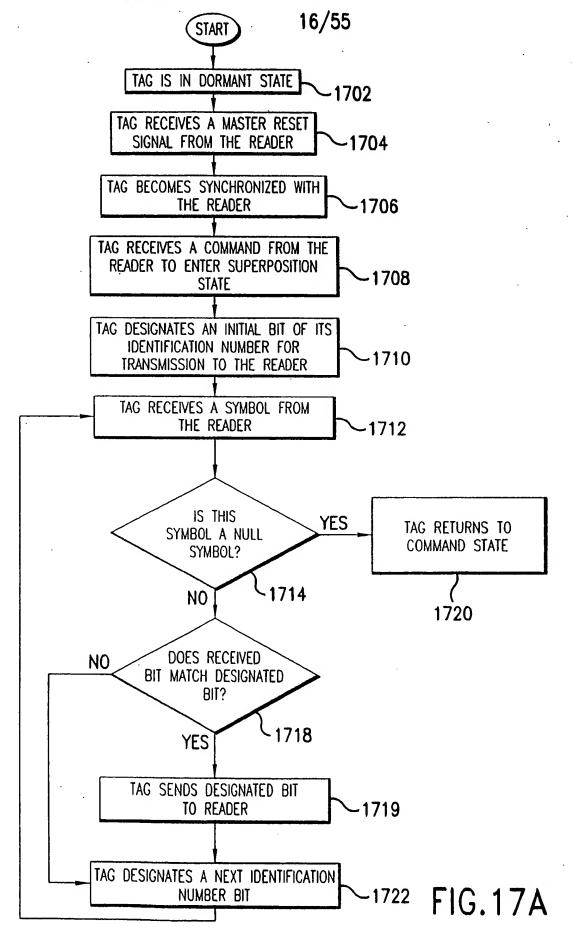


FIG. 16

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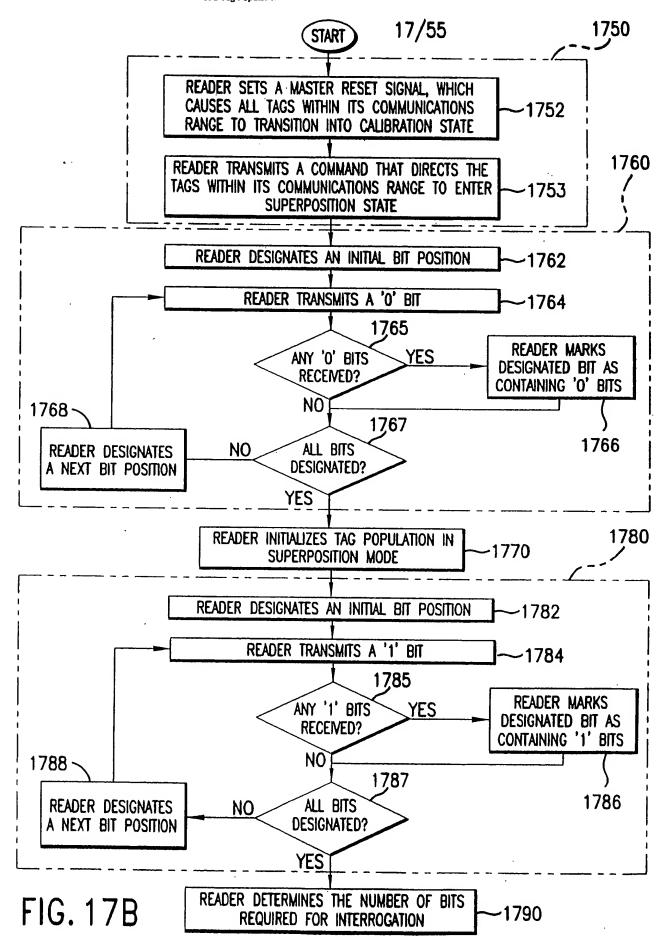
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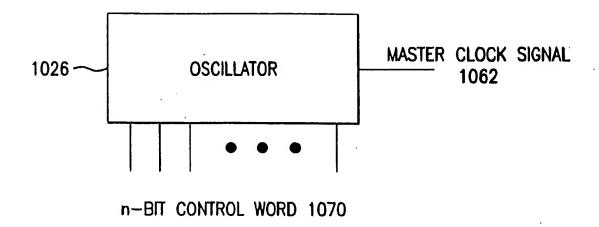


FIG. 18

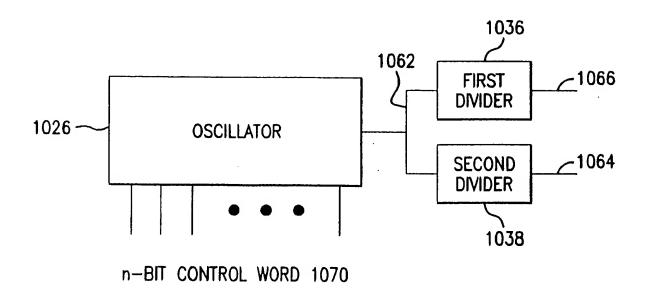


FIG. 19

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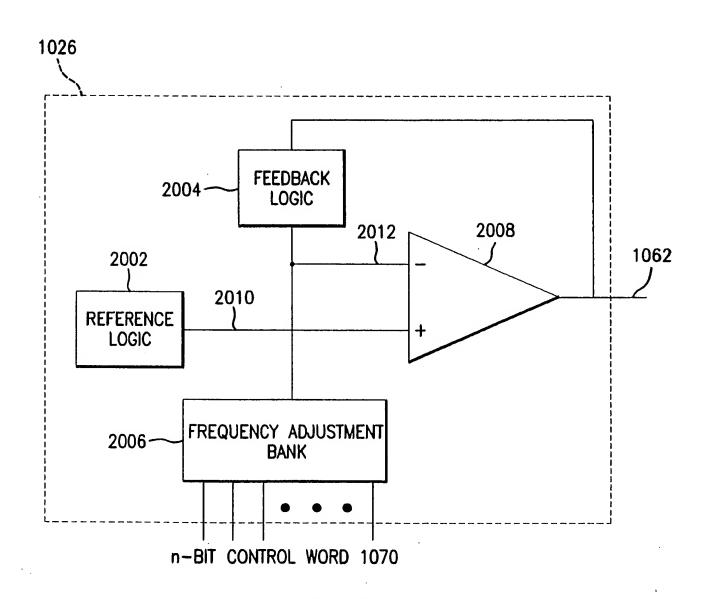


FIG. 20

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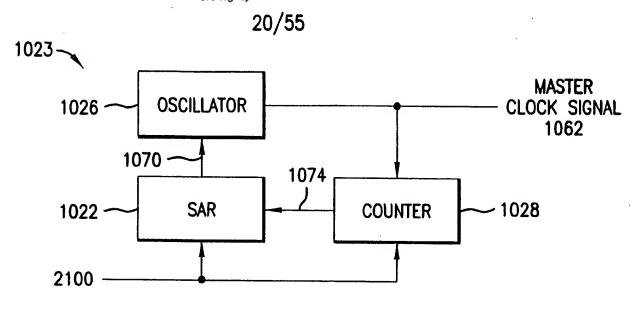
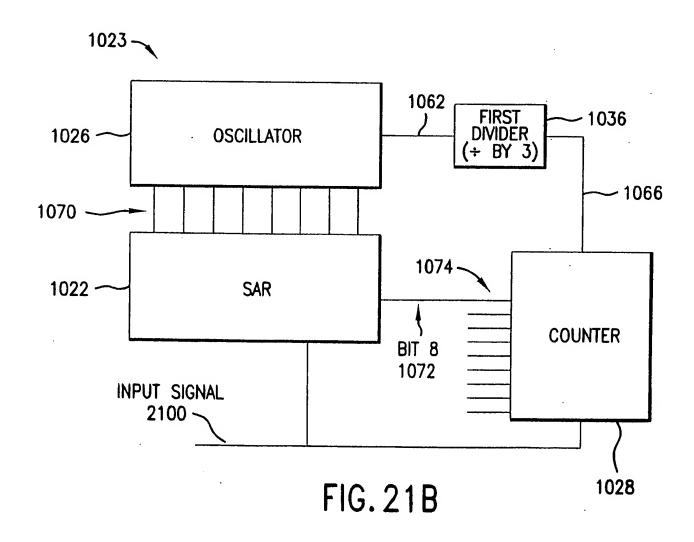
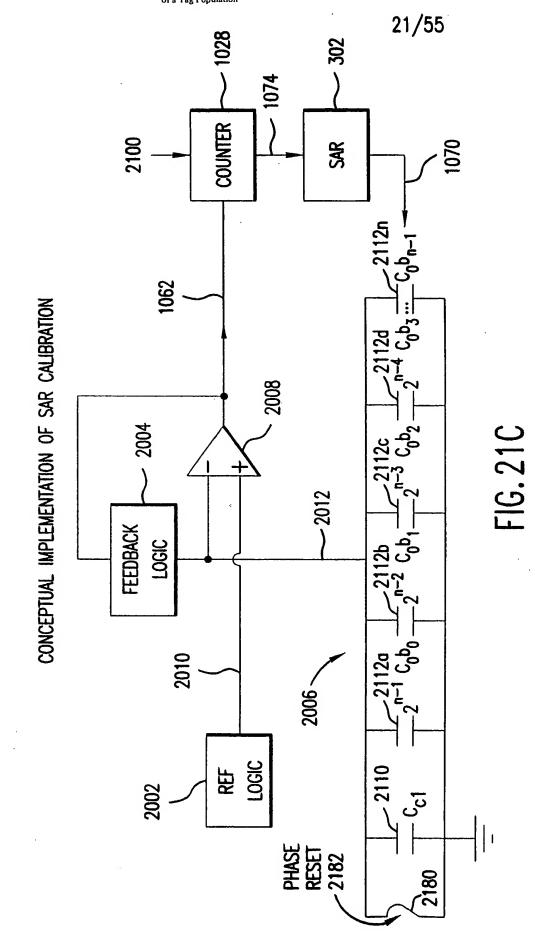


FIG. 21A



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PHYSICAL IMPLEMENTATION OF ADJUSTABLE CAPACITOR BANK

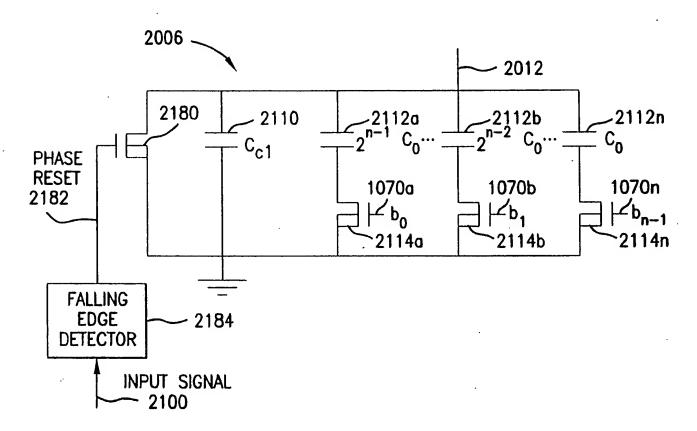


FIG. 21D

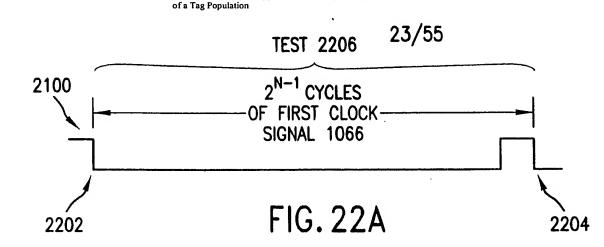
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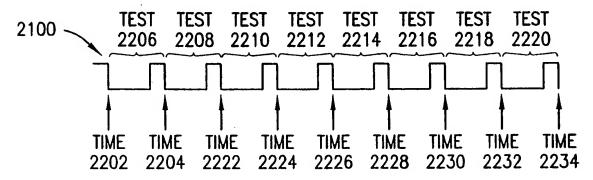
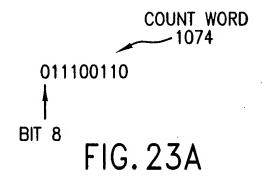


FIG. 22B



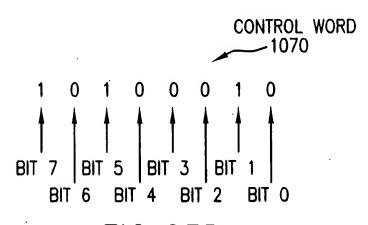


FIG. 23B

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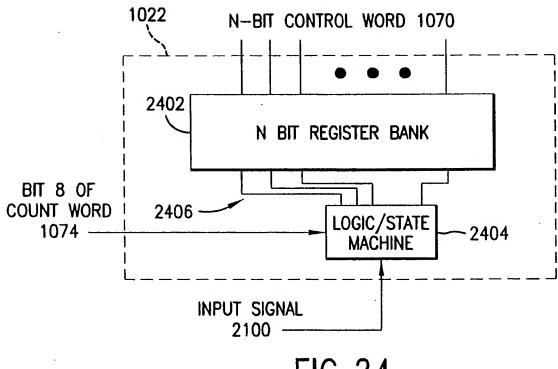


FIG. 24

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THE COUNT WORD IS CLEARED

2508

STEPS (a)-(c) ARE REPEATED N TIMES FOR SUBSEQUENT CORRESPONDING CYCLES OF THE INPUT SIGNAL, WHEREIN N IS EQUAL TO THE NUMBER OF BITS OF THE CONTROL WORD

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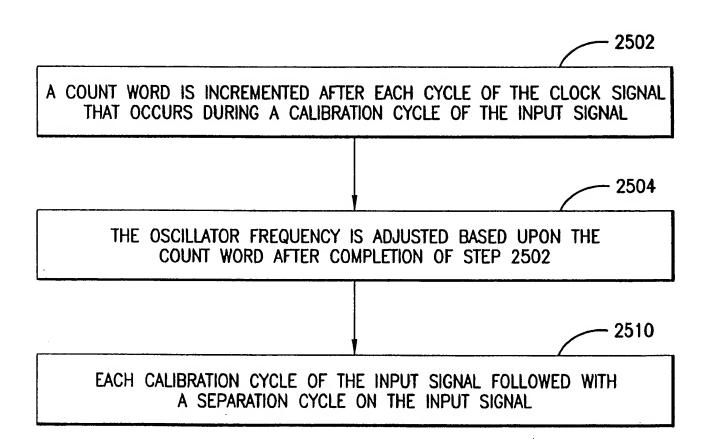


FIG. 25C

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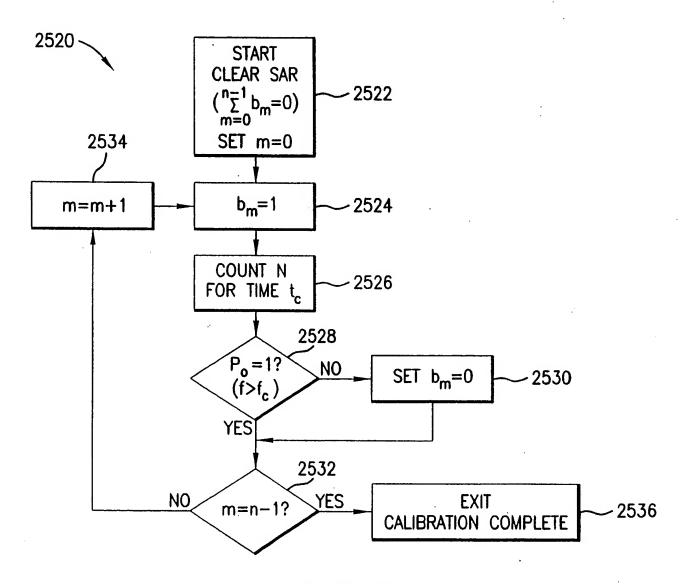


FIG. 25D

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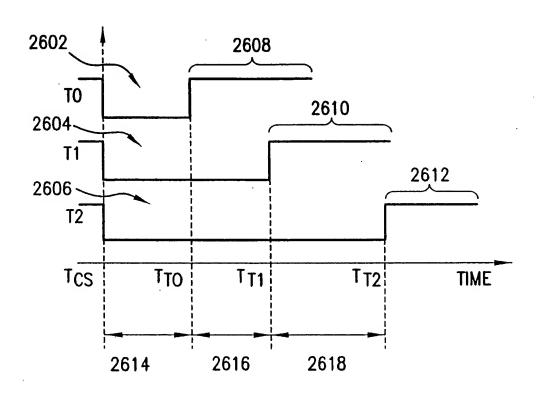
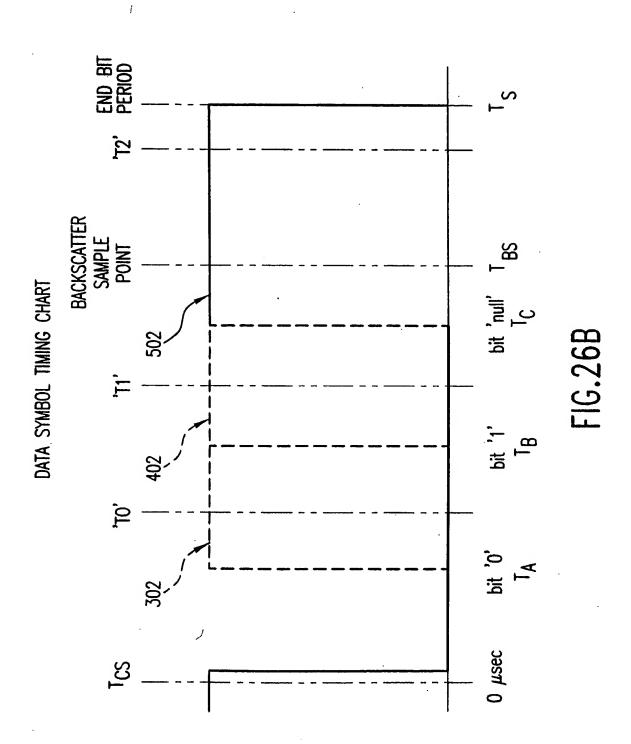


FIG.26A

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30/55 2700 1028 2708 1074 2100 DATA CALIBRATION COUNTER LOGIC FIRST CLOCK 1066 2702 2704 2706 T0 T2 REGISTER T1 REGISTER REGISTER 2710 DATA DETECTION LOGIC 2718 **T0 T1 FLAG FLAG**

FIG.27

2716

2714

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For: Method, System, and Apparatus for Binary Traversal of a Tag Population

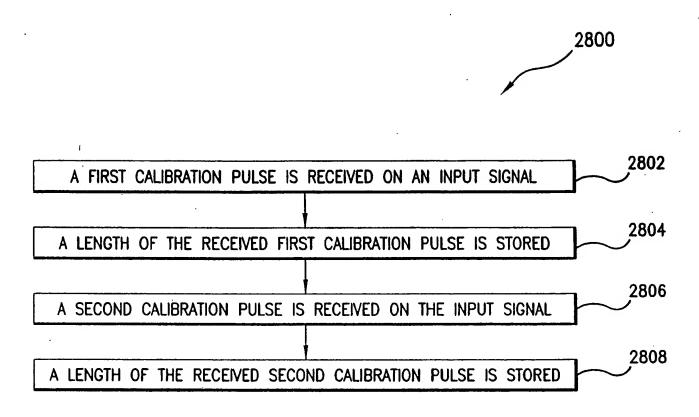


FIG.28A

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2810

2812

2814.

2816,

2818.

2820

2822

2824

2826.

FIG.28B

THE THIRD LOGICAL VALUE IS DEFINED AS A LOGICAL NULL BIT

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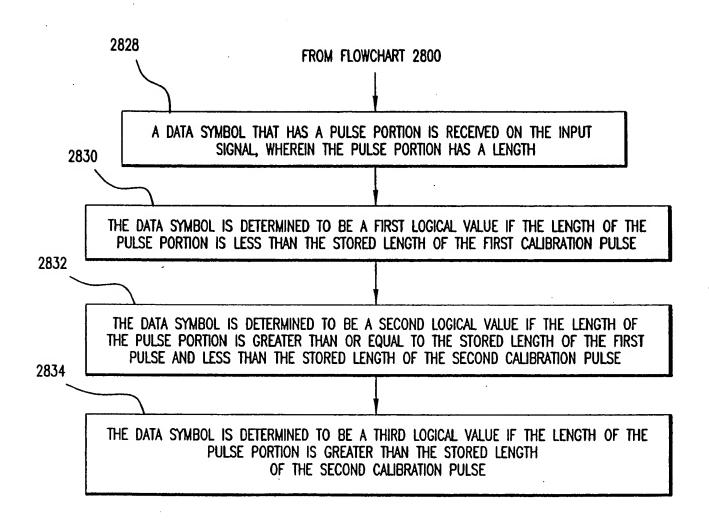


FIG.28C

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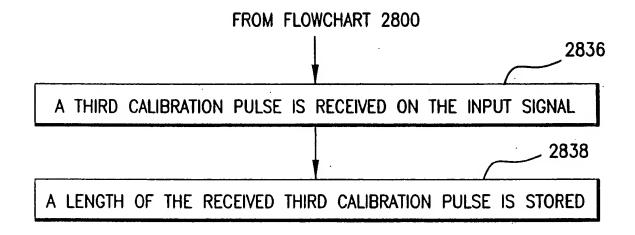


FIG.28D

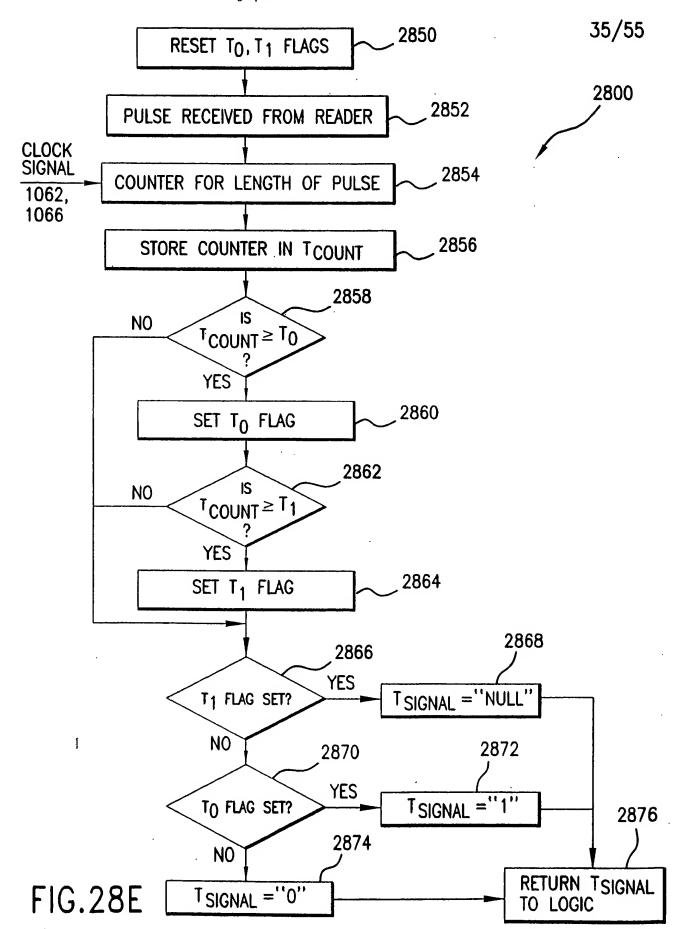
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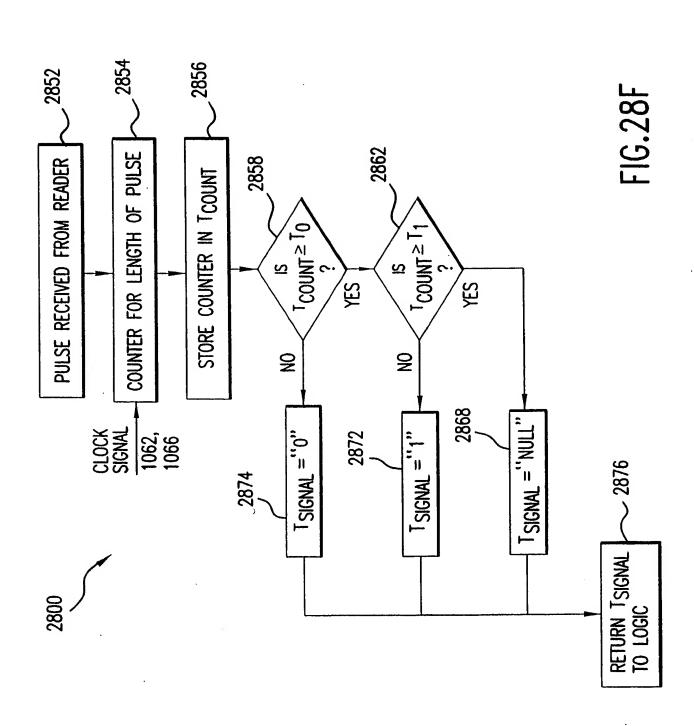
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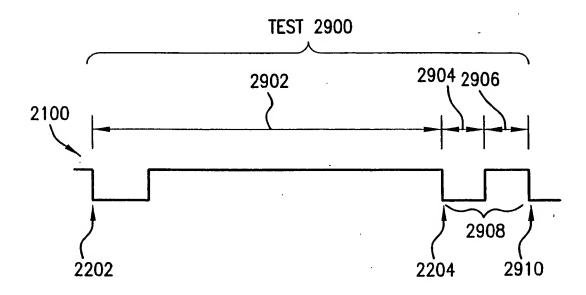
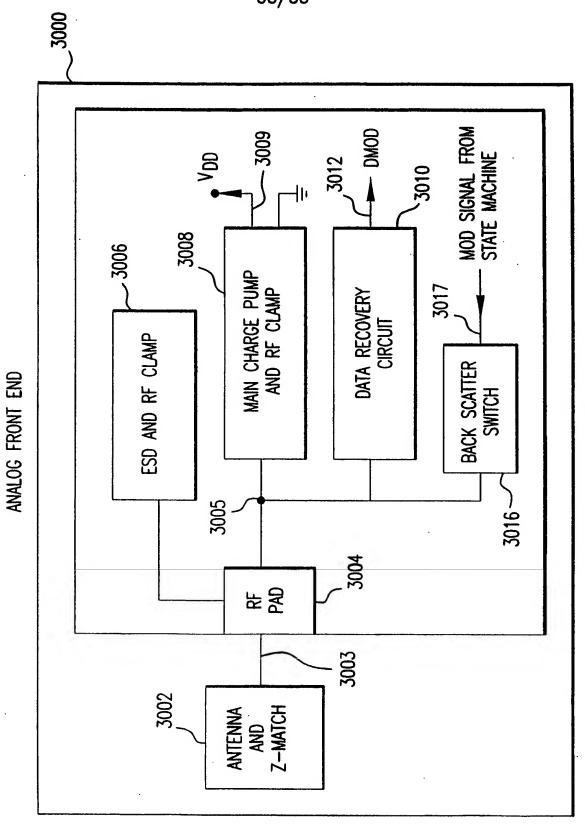


FIG.29

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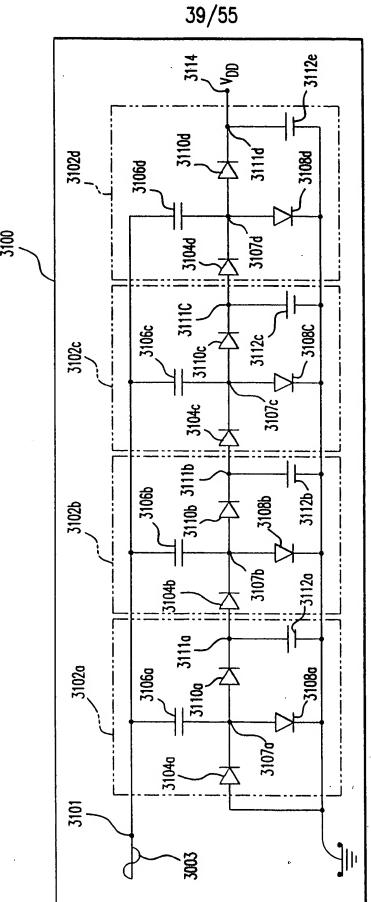
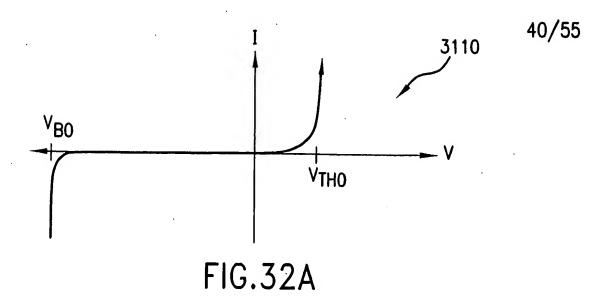
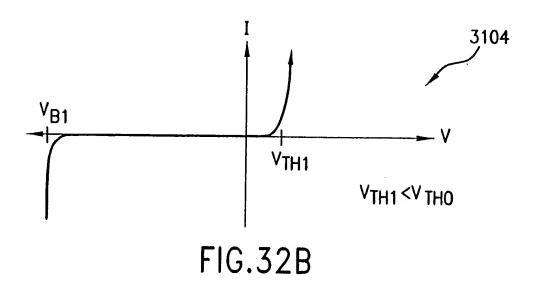


FIG.31

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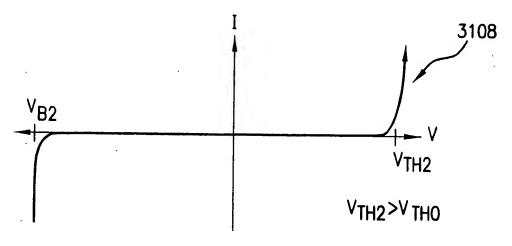


FIG.32C

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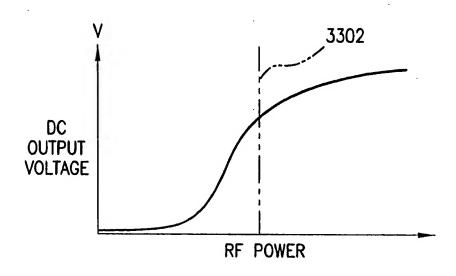


FIG.33A

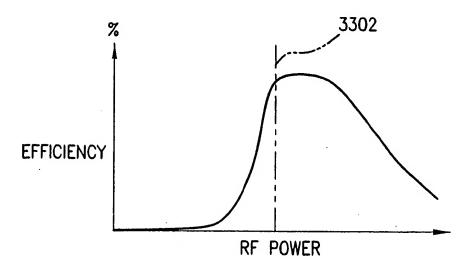


FIG.33B

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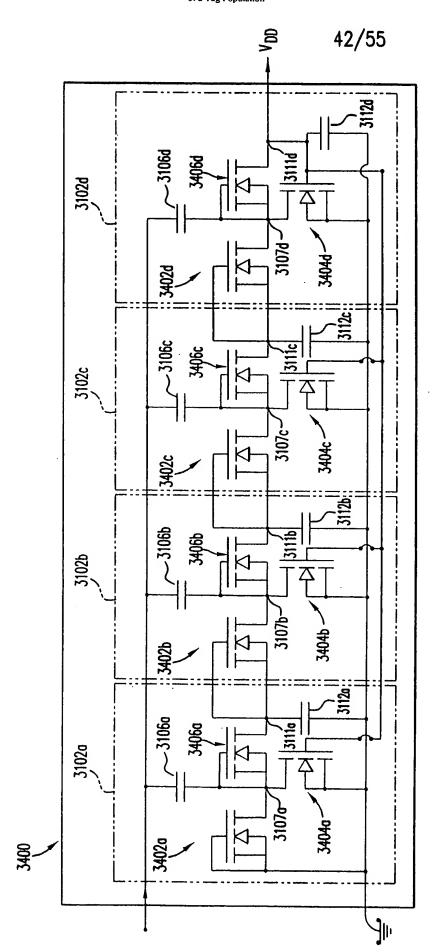
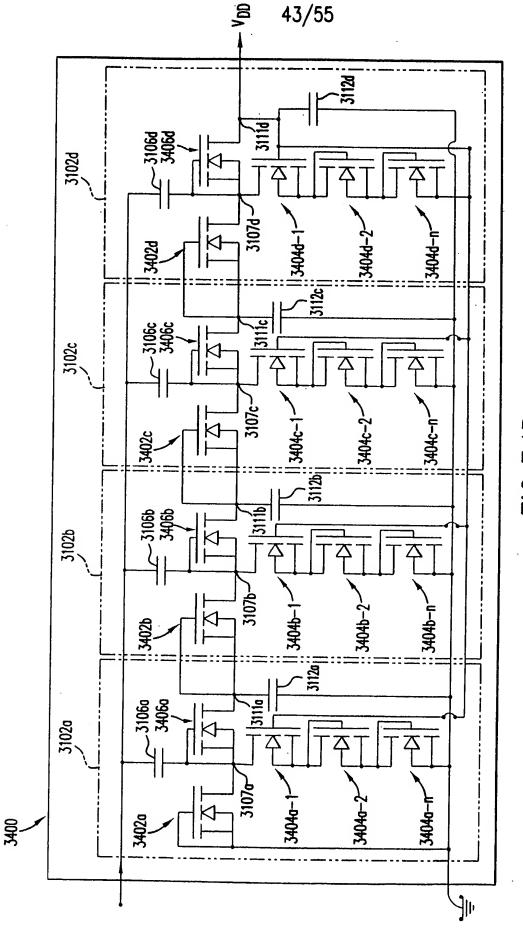


FIG.34A

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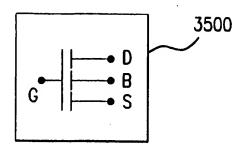


FIG.35A

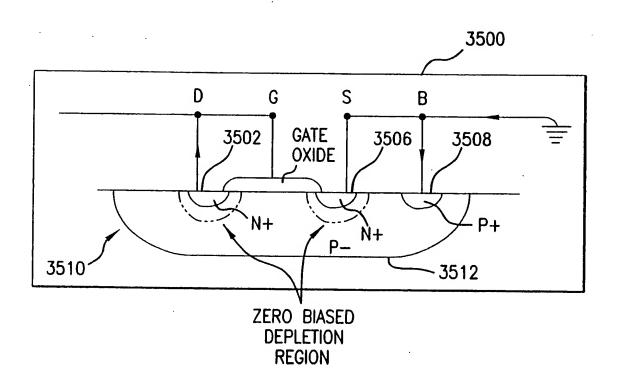


FIG.35B

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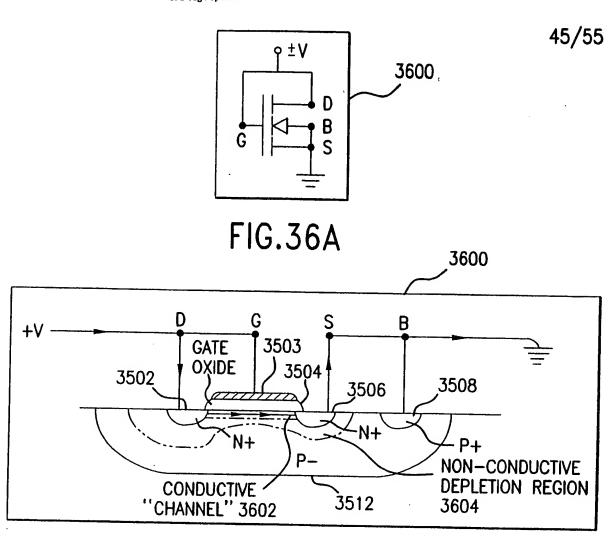


FIG.36B

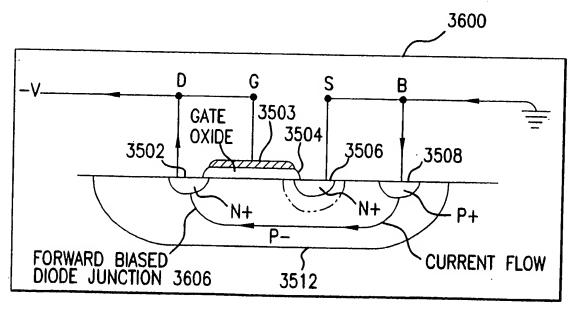


FIG.36C

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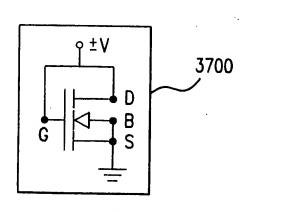


FIG.37A

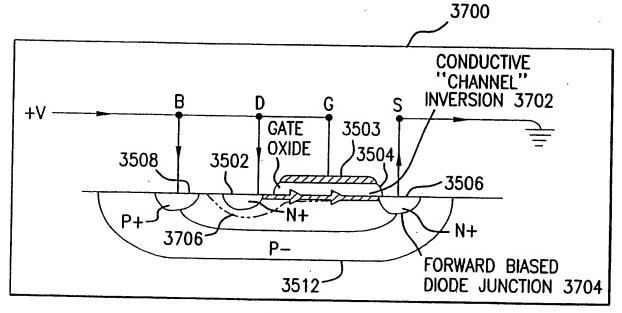


FIG.37B

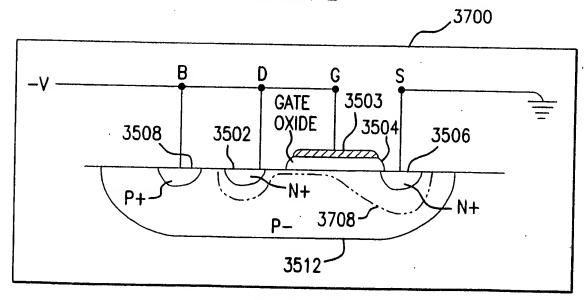


FIG.37C

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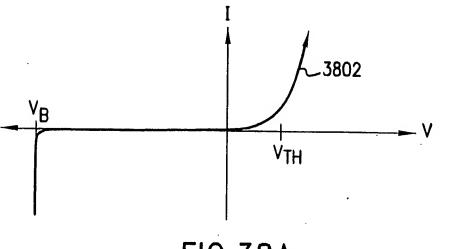


FIG.38A

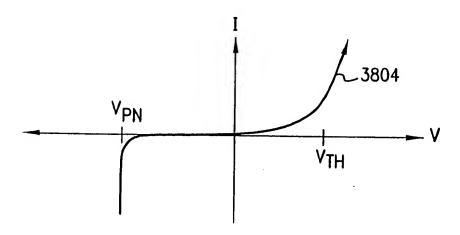


FIG.38B

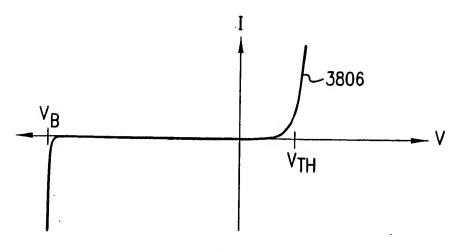


FIG.38C

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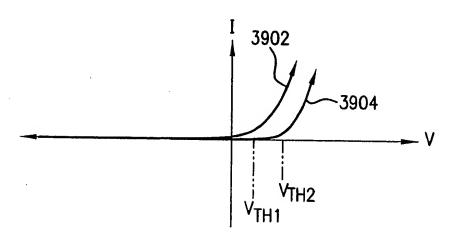


FIG.39

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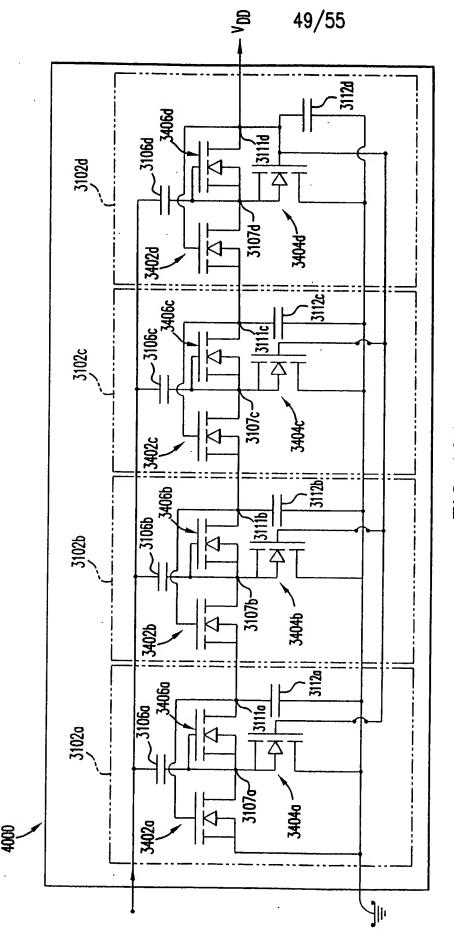


FIG.40A

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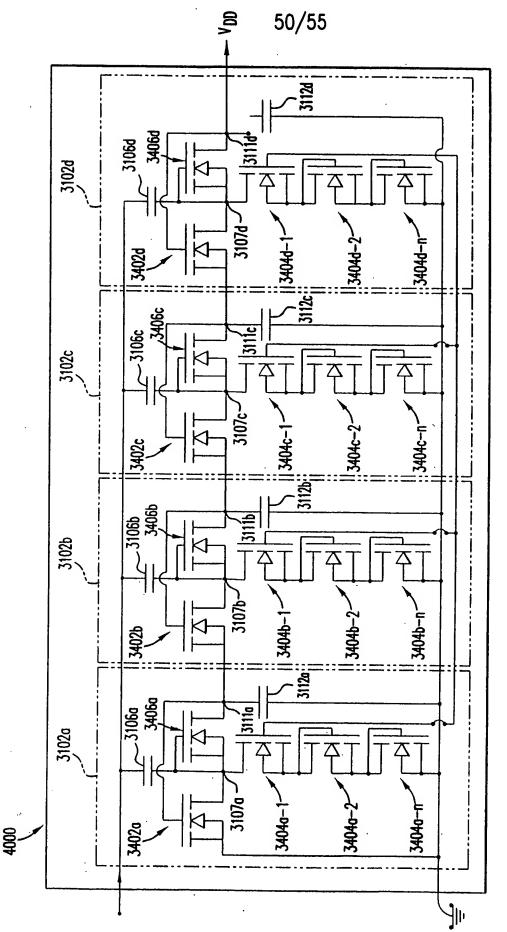
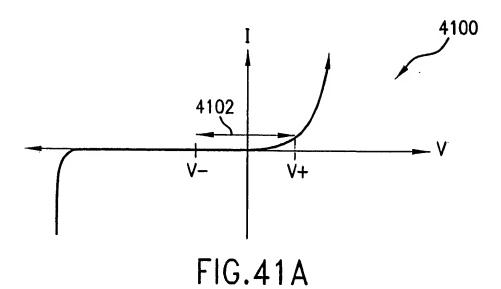


FIG.40B

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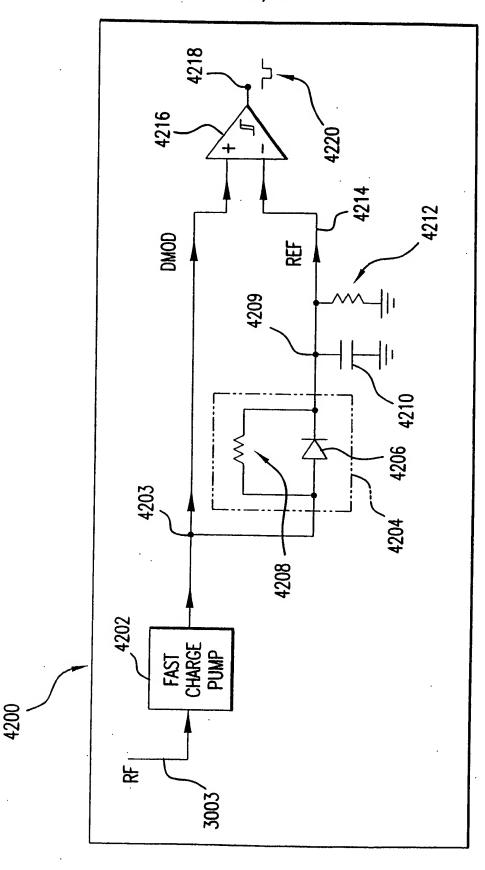
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FIG.41B

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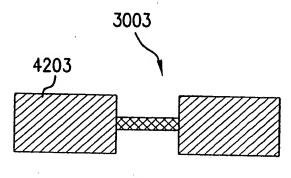


FIG.43A

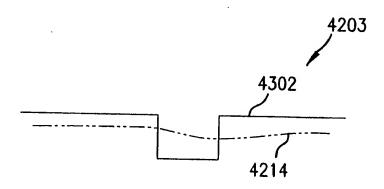
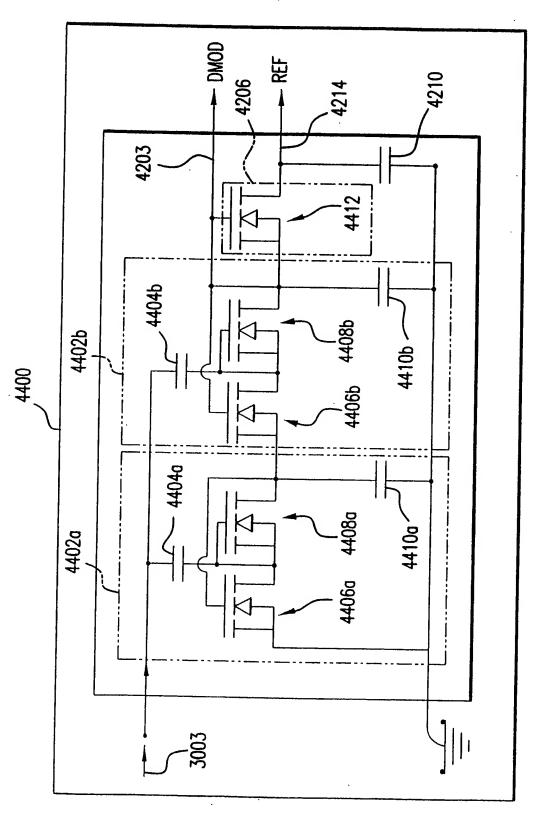


FIG.43B

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